French EDR Efforts and Workpackages

Goal of the meeting

- For the French GDE teams, get more information on workpackages formation : process, WP scope, responsabilities, alternative/baseline, ..
- For the « Troïka », get more information of the French EDR involvement and wishes;
- Develop closer contacts between the french GDE/EDR teams and the EDR management.

Brief summary of the French EDR efforts

- Main Linac – mostly **XFEL related**, but also FP7 « ILC Hi-Grade » and CARE 1&2:
  - Cavities (EP, Baking)
  - **Input couplers**
  - **Cryomodules** (cold mass, string assembly, module integration transport engineering)
  - **Cold BPMs**
  - Alignment/stabilisation
  - Other R&D
- Positron source
  - Compton source/polarisation (Alter.)
- Beam Delivery systems
  - ATF2 tests
  - 2 mrad and 0 mrad (Alter.)
  - MDI and machine background

XFEL responsabilities in France

- In-kind contribution for Linac around 40 M€
- **Full responsability for all the input couplers** (WP5) to LAL Orsay
  - Associated electronics under discussion
- **Complete assembly of all cryomodules in DAPNIA Saclay**
  - 50% of the Cryomodules cold masses provided by Saclay
- Contribution (~20%-33%) to the Cold Linac BPM system

Wish list for EDR particpation

- Formation of a Coupler WP under LAL Orsay responsability with partnership from SLAC and KEK
- Cryomodule Collaboration with
  - DAPNIA assembly chain
  - LAL new effort on transport engineering
  - LAPP alignment/stabilisation
- Cavity R&D in DAPNIA
- Strong recognition of key alternatives in the EDR
  - Compton Positron source
  - 0 and 2 mrad BDS beamline
- MDI/BDS WP with ATF2 work

Conclusion

- French teams are heading full steam for EDR phase thru key XFEL responsabilities, associated R&D and new engineering efforts
- Important to close the present « disconnect » between EDR management and French teams